

AFGHANISTAN



FUSION CELL

USCENTCOM

SOVIET MINES IN  
AFGHANISTAN



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UNITED STATES CENTRAL COMMAND  
MACDILL AIR FORCE BASE, FLORIDA 33608-7001

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**FOREWORD**

This study will detail mine delivery systems and tactics employed by the Soviets. Seismic minefield control devices and remote sensors are also discussed because they complement overall mining operations. An examination of the Mujahedin mine countermeasures followed by some conclusions will complete the study.

(U) This document is the product of the Afghan Fusion Cell and does not necessarily represent the official views of the Department of Defense, JCS or USCENTCOM. Comments and questions regarding this study are welcomed and encouraged. Address correspondence to USCENTCOM, ATTN: CCFC, MacDill AFB, Florida 33608-7001; or call AV 968-6580/6568, KY 9287/9279, GREY 991-6172.



THOMAS A. LOKEN  
COL USAF  
Chief, Fusion Cell

## INTRODUCTION

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**TYPES/DESCRIPTION OF SOVIET ANTI-PERSONNEL (AP) MINES.**

**MANUALLY EMPLACED MINES**

**MON-50 MINE.**

**MON-100.**

**MON-200.**

**PMN AP MINE.**

**PMN-2 AP MINE.**



**PMD-6, PMD-7, AND PMD-7ts AP MINES.**

**OZM-3, OZM-4, AND OZM-72 AP MINES.**

#### **POZM-2 AND POZM-2M AP MINES.**

Both mines have a serrated cast iron body, resembling a World War II hand grenade mounted on a stake, and are tripwire initiated. However the newer version, the POMZ-2M, has a fuse well that will accept an electrical fuse. Each has an explosive charge of 0.75kg and a bursting radius of 10 meters. The Mujahedin have reported that these mines are used by the Soviets to booby-trap concertina wire barriers. The mine is attached to the wire by the pull pin. When the wire is stepped on or moved the pin is pulled and the mine explodes.

#### **SCATTERABLE MINES.**

##### **PFM-1 AND PFM-1S AP MINES.**

The PFM-1 is a reverse-engineered copy of the US BLU-43B. The Mujahedin call this device the "Butterfly" mine due to its distinctive appearance. This scatterable mine has an olive green or tan plastic case, shaped like a butterfly, with one side (wing) containing 0.0367kg liquid explosive. Pressure is hydraulically transmitted through the liquid explosive to the spring-loaded pressure fuse. Once armed the PFM-1 is an extremely sensitive and effective casualty producer. It causes incapacitating injury and has been known to blow off all or most of a foot. The PFM-1S is a second generation, self destruct variant, with a factory set random destruct period of probably one to twenty-four

hours.

PGMDM ANTITRACK (AT) MINE.

**POM-2S ANTI-PERSONNEL FRAGMENTATION MINE.**

**SOVIET SCATTERABLE MINE DELIVERY SYSTEMS AND DISPENSERS.**

**BM-27 220MM MULTIPLE ROCKET LAUNCHER (MRL) DELIVERY  
SYSTEM.**

**MI-8 HIP SERIES AND MI-24 HIND HELICOPTER DELIVERY SYSTEM.**

**FIXED WING AIRCRAFT DELIVERY SYSTEMS.**

**SOVIET SEISMIC MINEFIELD CONTROL DEVICES AND REMOTE GROUND  
SENSOR SYSTEM.**

**VP-04 MINEFIELD CONTROL DEVICE.**

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**SOVIET REMOTE GROUND SENSOR SYSTEMS.**



**SOVIET MINE TACTICS IN AFGHANISTAN.**

**SOVIET DEFENSIVE MINEFIELD OPERATIONS.**

PAGES 14 AND 15

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SOVIET DENIAL MINEFIELD OPERATIONS.

**AIRBORNE, AIR ASSAULT, AND SPETSNAZ USE OF MINES.**

**MUJAHEDIN MINE COUNTERMEASURES.**

PAGES 19 AND 20

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## **CONCLUSIONS**

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